

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/061611 A1

- (51) International Patent Classification⁷: **C08L 5/08**, (74) Agents: **CHAPMAN, Paul, William** et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).
A61L 27/26
- (21) International Application Number: PCT/GB2004/005443
- (22) International Filing Date:
22 December 2004 (22.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0329907.0 23 December 2003 (23.12.2003) GB
- (71) Applicant (for all designated States except US): **IN-NOMED LIMITED** [GB/GB]; Craigmore, Douglas Road, Longniddry, East Lothian EH32 0LE (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **WHITE, Barry, James** [GB/GB]; Hyaltech Limited, Research Avenue South, Heriot Watt Research Park, Edinburgh EH14 4AP (GB). **RODDEN, Gillina, Isabella** [GB/GB]; Hyaltech Limited, Research Avenue South, Heriot Watt Research Park, Edinburgh EH14 4AP (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS OF SEMI-INTERPENETRATING POLYMER NETWORK

(57) Abstract: Novel compositions consisting of semi-interpenetrating network of cross-linked water soluble derivatives of basic polysaccharides and a non-cross-linked component, which is an anionic polysaccharide are provided. Methods for the production of such compositions are also disclosed. Preferably the basic polysaccharide is chitosan or a derivative thereof and the anionic polysaccharide is hyaluronic acid. The compositions can be formed into gels or films, for example, and thus find use in a wide range of medical applications in the fields of dermatology, plastic surgery, urology and orthopaedics.

WO 2005/061611 A1